**Department of Information Systems and Cyber Security University of Texas in San Antonio**



IS 3413: Telecom and Networking-001, Fall, 2022

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Lab Assignment: Lab: M06 – Subnetting Project  
Date Due: 10/8/2022  
Date Submitted: 10/8/2022

Section A, Question 1: What is your assigned network address?

129.115.99.0/24

Section A, Question 2: What is the subnet mask (dotted decimal form) for this network?

255.255.255.0

Section A, Question 3: What is the broadcast address for this network?

129.115.99.255

Section A, Question 4: How many addressable hosts are available for this network?

(2^8-2)=254

Section A, Question 5: To create 4 subnets, you must borrow how many bits from the host portion of the network? (Hint: solve 4 = 2n )

2 bits

Section A, Question 6: What is the subnet mask (dotted decimal form) for these new subnets?

255.255.255.192

Section A, Question 7: Write the network addresses, using CIDR notation, of the four subnets:

First subnet: 129.115.99.0/24

Second subnet: 129.115.99.64/24

Third subnet: 129.115.99.128/24

Forth subnet: 129.115.99.192/24